

Title (en)
CONTROL OF A BRUSHLESS MOTOR

Title (de)
STEUERUNG EINES BÜRSTENLOSEN MOTORS

Title (fr)
COMMANDE D'UN MOTEUR SANS BALAIS

Publication
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Application
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Priority
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Abstract (en)
[origin: GB2479625A] A method of controlling a brushless motor, the method comprising exciting a winding of the motor in advance of predetermined rotor positions by an advance period. A method of controlling a brushless motor in which a winding 7 of the motor is excited in advance of unaligned rotor positions by an advance period. The length of the advance period is defined by a waveform that varies periodically with time, and influences the amount of current driven into the winding 7 over an electrical half cycle of the motor, and in turn influences the amount of current drawn from the power supply. The waveform may be defined so as to shape the waveform of current drawn from the power supply so as to reduce the magnitude of low-order harmonics within the current waveform. An increase in power factor may be achieved without the need for a PFC circuit or high-capacitance link capacitor.

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